# Minnie H. Cui

□+1 647-618-0369 | ■ mhcui@utexas.edu | 🎓 minniehcui.github.io

Education **University of Texas at Austin** Austin, US MASTER OF SCIENCE, DEPARTMENT OF COMPUTER SCIENCE 2021 - pres. • Anticipated graduation: May 2022 · Concentration: Data Science • Select courses: Deep Learning, Natural Language Processing, Optimization **University of Toronto** Toronto, CA HONOURS BACHELOR OF ARTS, DEPARTMENT OF ECONOMICS 2014 - 2018 2018 Canadian Economics Association Best Undergraduate Paper Award • Concentration: Specialist in Economics and Minor in Mathematics • Select courses: Applied Econometrics II, International Finance, Economic Growth Experience\_ **Analyst** Ottawa, CA 2021 - pres. BANK OF CANADA, ECONOMIC AND FINANCIAL RESEARCH DEPARTMENT • Technical Lead for Canadian NielsenIQ Data and primary data modeler for NielsenIQ Homescan's Microsoft Azure Data Lake/SQL storage solution • Producing research on household consumption, COVID-19 inflation, niche consumption, transition to online transactions using NielsenIO Homescan Research contributor to the Bank's diversity & inclusion in economics project **Research Assistant** Ottawa, CA BANK OF CANADA, ECONOMIC AND FINANCIAL RESEARCH DEPARTMENT 2018 - 2021 · Provided research assistance on publications in the Review of Economic Studies, Journal of Monetary Economics, Economic Journal, Canadian Journal of Economics, and more · Provided statistical analysis, regression analysis, web-scraping, geo-spatial data analysis for various projects led by Governing Council members and the Bank's Senior Research Officers **Research Assistant** Toronto, CA University of Toronto, Factor-Inwentash Faculty of Social Work 2016 - 2020 • Generated various infographics summarizing the findings of publications by the Affirmative Research Collaborative and members of the International Partnership for Queer Youth Resilience • Created and maintained the following websites: www.inqyr.org, www.affirmativeresearch.org **Research Assistant** Toronto, CA University of Toronto, Department of Economics 2016 - 2018 Studied and produced teaching material on Canadian demographic transition 1970-2016 Intern Barcelona, ES **UN HABITAT CITY RESILIENCE PROFILING PROGRAMME** 2017 • Wrote business case studies for increasing city resilience from climate risk Projects\_

### Canada COVID-19 Tracker https://mhcui.shinyapps.io/Canada\_COVID/

2020 - pres.

#### R SHINY APPS

- Developed a dashboard that tracks Canadian daily COVID-19 cases, deaths, vaccination rates, government stringency, economic impact, and several dynamic metrics unavailable elsewhere
- Updated daily

2021 - pres.

PYTHON, GIT

- Created daily Canada average climate conditions (maximum, minimum, and average temperatures, total precipitation, wind gust, and more) by Census divisions and Census subdivisions data sets
- Updated weekly

#### Publications \_\_

- **Cui, M. H.** (2021). Does corruption diminish the productivity of female-managed firms more severely? A study of Latin America and the Caribbean. Submitted.
- **Cui, M. H.**, Jiang, G. Mosweu B. (2021). Swimming in the Data Lake: An application to NielsenIQ Homescan [Paper Presentation]. Bank for International Settlements IFC Workshop on Data Science in Central Banking.
- Cui, M. H. (2021). Debt-moratoriums during Covid-19. Bank of Canada Economic & Financial Research Matrix Notes 2021-1.
- Cui, M. H. & Kryvtsov, O. (2021). Falling Niche Consumption: the case of Canada 2013-2020. Working paper.
- Cui, M. H. & Meh, C. (2021). House ownership and mortage rates in predominantly black neighbourhoods. Working paper.
- **Cui, M. H.**, Shuai, A. & Tino, S. (2018). Relative age and early childhood participation in extracurricular activities. Working paper.

#### Presentations \_

Presenting author for all listed.

2022 BIS, IFC Data Science in Central Banking

Online

2021 ISEAPA, North American Productivity Workshop

Online

2018 Canadian Economics Association, CEA Annual Conference

Montreal, OC

#### Awards\_

- 2020 Women in Economics Scholarship, Bank of Canada
- 2018 **Best Undergraduate Paper**, Canadian Economics Association **The Regents Participation Awards**, University of Toronto
- 2017 **Richard Iorweth Thorman Bursary**, University of Toronto **Kathleen Watson Memorial Award**, University of Toronto
- 2016 The William and Margaret Wilson Bursary, University of Toronto Hosinec Family Scholarship, University of Toronto President's Scholar Program Scholarship, University of Toronto

## Technical Skills \_\_\_\_\_

Analysis Machine learning, deep learning, geo-spatial analysis, regression analysis

Languages Python, Matlab, R, SQL, HTML/CSS

Developer Git, Microsoft Azure, Google Cloud Platform, Amazon Web Services, VS Code, Anaconda, PyCharm

Softwares Stata, Excel

Create data Simulation & modelling, web-scraping

## Citizenship & Language Proficiency \_\_\_\_\_

Citizenship Canada

Languages English (native), Mandarin (native), French (fluent)